

PRODUCT DESIGN ENGINEERING TECHNOLOGY ARTICULATION AGREEMENT GUIDE
 Monroe County Community College – AAS in Mechanical Design Technology
 Eastern Michigan University – BS in Product Design Engineering Technology

Monroe County Community College Courses:**Transfer to Eastern Michigan University as:****Michigan Transfer Agreement (MTA) Requirements (30 credits)**

Students with the MTA endorsement on their community college transcript have satisfied EMU's General Education Core Requirements and will be required to complete only the EMU General Education Application Requirements of one Perspectives on a Diverse World course, one Learning Beyond the Classroom experience, and one writing intensive course in the major. Courses listed below for the MTA also satisfy program requirements at EMU and/or MCCC. [Monroe CCC MTA List](#).

1. A course in English Composition

¹ ENGL 151 English Composition I (C3)..... 3	WRTG 120 General Transfer Credit..... 3
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2. A Second course in English Composition or Communication

*ENGL 152 English Composition II..... 3	WRTG 121 Composition II (pre-req for SET300W) 3
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3. A course in Mathematics

*MATH 171 Calculus I (C2)..... 4	MATH 120 Calculus I..... 4
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4. Two courses in Natural Sciences from different disciplines (one lab required)

* Choose one from: CHEM 150 or CHEM 151 4	CHEM 117/118 or CHEM 121/122 4
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*PHY 151 General Physics I (C1) 4	PHY 221 Mechanics, Sound and Heat 4
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5. Two courses in Humanities and Fine Arts from different disciplines

Choose from the approved MTA list..... 6	General Transfer Credit..... 6
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It is recommended to complete a course that also meets C5

6. Two courses in Social Sciences from different disciplines

Choose from the approved MTA list..... 6	General Transfer Credits..... 6
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It is recommended to complete a course that also meets C6

If needed, complete an additional course in the above categories to meet the 30 credit minimum for the MTA.

EMU's Perspectives on a Diverse World requirement: Complete one course from the following list:

These courses also satisfy an MTA area: **Natural Science:** BIOL 156; **Humanities:** ENGL 240, 255, 266; HUMAN 256, 257; **Social Sciences:** ANTHR 152; GEOG 152; HIST 159, 173, 255, 256; POLSC 211, 252; SOC 153.

These courses apply, but do not satisfy the MTA: BMGT 220; IAS 105

MCCC Mechanical Design Technology Requirements (44 credits)

*MATL 101 Industrial Materials (Restricted Elective)..... 3	PDET 111 Materials 3
MDTC 152 Descriptive Geometry..... 4	MET 223 General Transfer Credit (2)+2..... 4
*MDTC 160 Mechanical Drafting and CAD I (C4)..... 4	PDET 122 Engineering Graphics 4
*MDTC 161 Mechanical Drafting and CAD II..... 4	PDET 224 Solid Modeling (3)+1..... 4
*MDTC 226 Geometric Dimensioning and Tolerancing..... 3	PDET 220 Geometric Dimensioning and Tolerancing..... 3
MDTC 228 Introduction to SOLIDWORKS-CSWA..... 3	PDET 000 General Transfer Credit 3
MDTC 236 Rapid Prototyping..... 4	PDET 000 General Transfer Credit 4
MDTC 242 Mechanical Design Capstone Project..... 4	PDET 000 General Transfer Credit 4
*MECH 102 Manufacturing Processes..... 4	PDET 123 Manufacturing Processes 4
MECH 103 Machining Basics and CNC..... 4	MFG 215 General Transfer Credit 4
*METC 220 Statics & Strength of Materials..... 4	PDET 325 Applied Statics & Strength of Materials..... 4
METC 170 Intro to Parametric CAD/CATIA..... 3	PDET 000 General Transfer Credit 3

EMU Requirements that May be Taken at MCCC or EMU (8 credits)

*MECH 231 CAD/CAM III..... 3	PDET 350 Prototyping..... 3
*ELEC 125 Fundamentals of Electricity..... 3	CEET 200 Circuit Analysis I 3
Open Electives..... 2	General Transfer Credit..... 2

Credits at MCCC: 82	Credits that apply to EMU's program 82
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*Required for EMU's Product Design and Development program. If not transferred, must be completed at EMU.

Sign up with us: If you let us know you are using this articulation agreement, we can stay in touch with you and provide information and advising to you while you are still at your community college.

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**Completion of the BS in Product Design
 Engineering Technology at EMU**

Major Requirements (42 credits)

PDET 156	Teamwork in Product Design & Development	3
PDET 157	Introduction to Product Design	3
PDET 212	Molding Materials and Processes.....	3
PDET 216	Concept Development	3
PDET 309	Molded Product Design	3
PDET 310	Formed Product Design.....	3
PDET 432	3-D Modeling and Surfacing	3
PDET 433	3D Assembly Modeling.....	3
PDET 491	CAD Capstone.....	3
PDET 492	Product Realization Studio	3
	One additional PDET course approved by an advisor	3
QUAL 320	Industrial Quality Control	3
¹ SET 350W	Engineering Communication	3
	Choose one course from the following.....	3
	MET 430 Computer Aided Engineering (3)	
	PDET 380 Engineering Cost Estimating (3)	
	² PDET 387L4 Co-op in Product Design (3)	

LBC Requirement

Students must complete one Learning Beyond the Classroom course or noncredit experience offered by EMU. PDD 387L4 applies toward this requirement.

Credits at EMU:42

Transfer Credits:82

*** Total Credits:124**

** EMU requires 124 credits to graduate. If sufficient credits are not transferred in, students may need to complete additional requirements at EMU to meet the requirement.*

¹ Satisfies EMU's Writing Intensive requirement.

² Satisfies EMU's Learning Beyond the Classroom requirement.

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Additional Information:

1. Each institution will determine the satisfaction of their individual program and degree requirements. Both institutions agree to accept transferrable courses from each other and from other regionally accredited institutions. MCCC courses indicated with an * are required for EMU’s BS in Product Design Engineering Technology. Substitutions for these courses must be approved by the EMU program coordinator.
2. Students with the MTA endorsement on their community college transcript have satisfied EMU’s General Education Core Requirements and will be required to complete only the General Education Application Requirements of one “Perspectives on a Diverse World” course, one “Learning Beyond the Classroom” experience, and a “Writing Intensive” course in the major. The Perspectives on a Diverse World requirement may be transferred to EMU.
To use the Michigan Transfer Agreement (MTA), students must have an official community college transcript, with the “MTA Satisfied” endorsement sent to EMU’s Admissions Office. Students who do not have “MTA Satisfied” on their community college transcript, will be required to satisfy EMU’s general education requirements as applied to transfer students. The MTA may be completed after admission to EMU, however, students should inform their advisors or they may be advised to complete additional courses for the general education program. If already on the transcript, the MACRAO designation will be accepted at EMU after August 2019.
3. Only courses with a grade of “C” or better (2.0 on a 4.0 scale) will be accepted for transfer to either institution.
4. Under this agreement, EMU will waive the 60-hour rule and require that a minimum of 30 credit hours must be completed at EMU, of which at least 15 must be completed at the 300-level or above. Of the last 30 hours completed before graduating, at least 10 hours must be in courses completed at EMU. A minimum of 124 credit hours, completed in-residence or accepted in transfer, is required for graduation. Courses listed in this guide may be completed at the most opportune time for students, whether before or after admission to EMU, as long as appropriate pre-requisites are satisfied.
5. Students must satisfy all admission requirements at the time of application for admission to EMU, including submitting transcripts from all previously attended colleges. MCCC students will receive equal consideration with other students for course registration and financial aid.
6. Students are encouraged to contact EMU’s GameAbove College of Engineering and Technology Student Services before applying to EMU. To facilitate advising and the evaluation of transcripts, [sign up for this articulation agreement](#), and bring a copy of this articulation guide to all advising sessions.

Effective Date: September 1, 2021 until August 31, 2024.

This agreement is consistent with the 2021-2022 catalog. Students have until summer 2029 to graduate from Eastern Michigan University following this agreement. In the event that a student does not complete the program within seven years, they may be required to have their credits reevaluated using the requirements of the current articulation guide.

Contacts:

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 Admissions and Guidance Office
 734.384.4104

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